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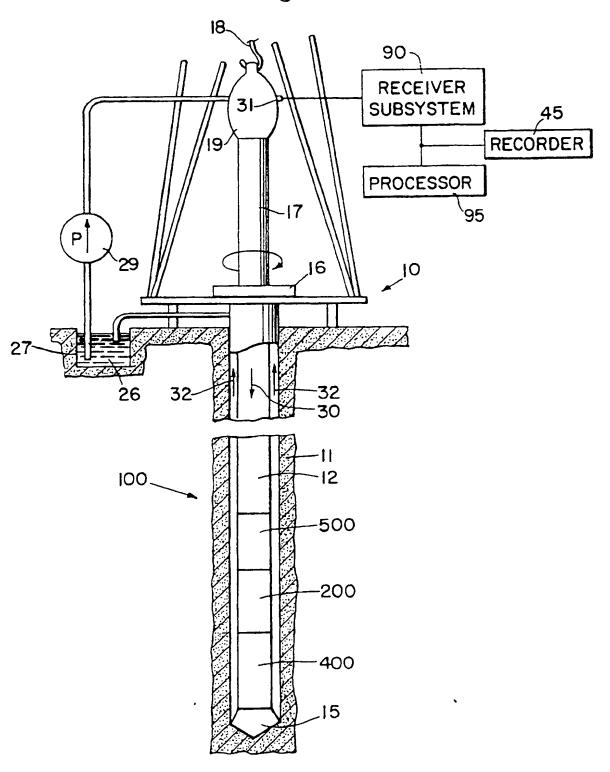
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(54) Method and apparatus for determining horizontal conductivity and vertical conductivity of earth formations.

The disclosed technique and apparatus utilizes the different characteristic responses of a plurality of signals from a propagation or induction well logging device to determine the vertical and horizontal resistivity of formations surrounding a borehole. In a disclosed embodiment, a method is set forth for determining the horizontal conductivity and the vertical conductivity of formations surrounding an earth borehole, including the following steps: a) deriving first and second formation conductivity values from measurements taken in the borehole; b) selecting a horizontal conductivity model value and a vertical conductivity model value; c) computing error values from the differences between: (i) first and second composite conductivity values computed as a function

of the horizontal and vertical conductivity model values, and (ii) the first and second derived formation conductivity values; d) modifying the horizontal and vertical conductivity model values; e) repeating steps (c) and (d) until predetermined criteria of the error values are met; and f) outputting modified horizontal and vertical conductivity model values.

Fig. 1





EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT				EP 92402243.7
ategory	Citation of document with indi of relevant passa		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	US - A - 4 636	731	2 3	G 01 V 3/30
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